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Research Report
KTC-02-12/SPR 221-00-1F

ENTERPRISE RESOURCE PLANNING

By

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16. Abstract

This goal of this project was to assist the Cabinet in improving the way data is gathered, maintained, and used in the Highway Information System (HIS). The procedure was to identify the critical uses of various data categories, the specific needs for that data, and how that matched up with how the data is handled currently. The end result is a database of metadata information about the HIS database itself. This will enable new users and those unfamiliar with the background of the HIS to easily locate information about how data was collected, how frequently it is updated, and the responsible parties for particular data types.

17. Key Words	18. Distribution Statement		
HIS, Database, Metadata	Unlimited, with the approval of the Kentucky Transportation Cabinet		
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Table of Contents

Executive Summary

This goal of this project was to assist the Cabinet in improving the way data is gathered, maintained, and used in the Highway Information System (HIS). The procedure was to identify the critical uses of various data categories, the specific needs for that data, and how that matched up with how the data is handled currently.

Many HIS users and contributors currently have an insufficient appreciation of the need for data quality both on the input and usage side. The quality of the data in the HIS impacts the generation and maintenance of other systems and extracts, including the Highway Performance Management System (HPMS), the new Operations Management System (OMS), the 6 year plan, Permits Encroachment Recordkeeping System (PERKS), and the new Strategic Operations Center.

This project arose in response to the problem of experienced HIS users and database administrators carrying important information that could become lost due to employee turnover, job transfer, retirement, or a variety of other factors. There is a need to capture this knowledge individually held by many individuals within the cabinet. Aspects of the HIS system data that are documented include:

- Origin
- Identity
- How it is collected
- Who collects it
- Frequency of collection
- How it is used

- Its intended use
- Value of correct use
- Hazards of inappropriate use
- Maintenance responsibility
- Data standards and format
- How data is submitted

The end result is a database of metadata information about the HIS database itself. This will enable new users and those unfamiliar with the background of the HIS to easily locate information about how data was collected, how frequently it is updated, and the responsible parties for particular data types.

About This Guide

The Highway Information System offers the user online access to data collected and maintained by various Divisions of the Kentucky Transportation Cabinet. This database is located at http://www.kytc.state.ky.us/planning/his_extracts/his_extracts.htm. The Kentucky Transportation Center has compiled this User's Guide as a resource for the purpose of accessing and using this database.

At the HIS Extracts database, the primary data is downloadable in zipfile format, accessed through the use of Winzip software. A link to Winzip is provided at the HIS Extract homepage or Winzip can be found at the URL http://www.winzip.com. The user needs to have the capability to unzip files in order to view the individual database files.

Prominent features of the information found in this guide will include contact references and update frequency, as well as notes on various items such as reporting levels, accuracy, and the activities/systems supported by the data. In this Guide, the categories of information are listed in alphabetical order according to their inventory type code, a two-letter designation (e.g.Accidents-AC, Auxiliary Lanes-AL, and so on).

In each category of data the user will find will the same delineation of features. As not every feature will be applicable to every category, those feature designations will be seen as blank. The following is a brief account of each of the features of resource information found in this User's Guide.

Header: Title of data category.

Inventory Type Code: The two-letter designation in capitals of the data category.

HIS View Name: The inventory view name as designated by HIS.

HIS Feature Type: Designates point, length, or continuous.

Data Purpose: A brief of data purpose as stated at the HIS Extracts homepage.

Data Description: A brief of what this data element expresses and in what units.

Geographic Extent: Will indicate if data category pertains to statewide or other.

Level of Completion: Indicates whether data category as found within His Extracts is complete.

Source of Information/Contact: Refers User to the agency and/or person who is responsible as a source for the information in the data category and offers contact information in the event the User has further questions.

Activities supported by this data: Informs user as to the various possible functionalities of the data. The possibilities are ADDs/MPOs, Design, Environmental, Multimodal, Operations, Planning, Traffic, and University of Kentucky Transportation Center (UKTC).

Data Systems supported by this data: Informs user of other data systems which share relational information with or from the HIS database. The possibilities are HPMS, CRASH, OMS, SYP, PMS, KBIS, and Other.

Impact within other data systems: Informs user as to relationships and specific shared data between HIS and above listed databases.

Reporting Level: A designation of Federal or State.

Data Collection Method: Description of data source and methodology.

Primary data storage: Informs user as to where the data is primarily resident—whether HIS or elsewhere.

Performance measures: Informs user as to whether performance measures are used, and if so, what the specifications are for the data type.

Native format: Identifies the format of the source material of data as supplied to the database: Field Inventory Form, Electronic Transfer, Official Order, or Other.

Update cycle: Defines what events trigger an update to this data.

Linear roadway systems: Identifies the linear roadway systems to which this data pertains.

Quality Control: Indicates which processes insure quality control.

Additional sources of documentation (Metadata): Informs user as to what documentation and its format is available in addition to the inventory definitions stored within HIS.

Dissemination Restrictions: Indicates whether any restrictions on data are in effect.

Data access enabled through: Describes how others enable the data access from HIS.

Accuracy and Precision issue problems: Identifies which accuracy and precision issues apply to this data.

Inventory Items that are affected by changes in this data (w/HIS inventory codes): Identifies which of the other inventory types within the HIS database share relational data with the inventory type in question.

Proposed improvements: Informs user as to what in the inventory type data, in the contact's opinion, needs to be changed and how.

Other data that would be helpful in supporting these systems: Defines which other data would be useful to supplement this inventory type.

Other ideas for better analyses that would require new or different data: Describes possible future opportunities for innovation in analyses as regards this inventory type.

Other general comments: Any additional commentary the contact deems useful or necessary.

Accidents

Inventory type code: AC

HIS View name: ACCIDENTS

Data purpose:

HIS Feature Type: Point

Data description: Point vehicle accident locations. 1/1000 mile.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: KY State Police
Sgt. John Carrico
(502)227-8700

Activities supported by this data:

☑ ADDs/MPOs	☑ Operations	**Notes:**
☑ Design	☑ Planning	
☐ Environmental	☑ Traffic	
☑ Multimodal	☑ UKTC	

Data systems supported by this data:

☑ HPMS	☑ SYP
☑ CRASH	☐ PMS
☑ OMS	☐ KBIS

Other: Injury Prevention System.

Notes:
Suggested: "should" support PMS also.

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP: evaluate projects -- safety criteria (hazard elimination program)

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☐ State **Other level:**

Reporting Level Notes: Performance criteria for federal funding for hazard elimination program $$. State police reporting- Crash.

Data collection methods: Police fill out accident forms, electronic or paper copy. Both utilise same format.

Primary data storage: CRASH

Performance measures: HEP and KTC fatality reduction tracking.

Native format: ☐ Field Inventory Form ☐ Official_Order
☑ Electronic Transfer ☐ Other:

Update cycle: ☐ **Event:** ☐ Field_Observation **Notes:** May be upgraded to monthly.
☐ Official_Order
☐ Other:

and/or ☑ **Scheduled Periodic Update:**
☐ Monthly
☑ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other: CRASH edit checks and HIS required milepoint (or MP 0) and route_id

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☑ Other: CRASH documentation

Dissemination restrictions: Release form must be signed to access data. Data not publicly available.

Data access enabled through:

☐ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data
☑ Locational Accuracy
☐ Cross-sectional Position

☑ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Cross section -- location data -- cardinal/not cardinal. GPS use: should set it on right side.

Priority of these proposed improvements:

High

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

User must be familiar with data, there are a number of data nuances that could confuse the casual user. Data inconsistencies exist due to change in source database. Before January 1, 2000 source is CARS, after source is CRASH.

Auxiliary Lanes

Inventory type code: AL

HIS View name: AUX_LANES

Data purpose:

HIS Feature Type: Length

Data description: This data element describes the presence/absence of turn, merging, truck, passing, continuous left-turn, or other additional lanes. Auxiliary lane width is measured in whole feet.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Ed Whittaker
(502) 564-7183 Ext. 4420
ewhittaker@mail.kytc.state.ky.us

Activities supported by this data:
☐ ADDs/MPOs ☐ Operations **Notes:**
☐ Design ☐ Planning
☐ Environmental ☑ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☑ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other:

Impact within other data systems:

HPMS: Capacity calculations

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Measured both by field measurements and inspections and also by driving roads with a DMI (distance measuring instrument).

Primary data storage: HIS

Performance measures: Used in capacity calculations for roadways.

Native format: ☑ Field Inventory Form ☐ Official_Order ☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation ☐ Official_Order ☐ Other: **Notes:** No set schedule. Originally entered as part of the initial inventory, now updated through official orders.

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly ☐ Semi-annually ☐ Annually

Linear roadway systems ☑ **State System:**

☐ State Primary Roads
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

Notes:

☑ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks ☑ None ☐ Other:

Additional sources of documentation (Metadata):

Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☐ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☑ Age of Data
☑ Locational Accuracy

☑ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

MD-Medians
EV-Rating Evaluation Sections (for capacity)
RL-DMI Route Log

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Appalachian Development Highway System

Inventory type code: AP

HIS View name: APPAL_SYSTEM

Data purpose: Begin/End milepoint of segments on the Appalachian Development Highway.

HIS Feature Type: Length

Data description: Sectional length for cost estimates in miles to the nearest tenth.

Geographic extent: ☐ Statewide **or (other):** Appalachian Corridor in Kentucky

Level of completion: Complete (see previous note)

Source of information/contact: Appalachian Regional Commission
Bo Woodrum
(502)564-7183

Activities supported by this data:

☐ ADDs/MPOs	☐ Operations	**Notes:**
☐ Design	☑ Planning	
☐ Environmental	☐ Traffic	
☐ Multimodal	☐ UKTC	

Data systems supported by this data:

☐ HPMS ☐ SYP
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other: Appalachian Corridors & Strip Maps

Notes:

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other: Preparation of Appalachian Development Highway System cost estimates and milepoints from linear referencing system. May eventually be used in system for all 13 states through Appalachian Regional Commission.

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Entered from documentation as identified by Appalachian Development Highway System cost estimates and milepoints from linear referencing system.

Primary data storage: HIS

Performance measures: No

Native format: ☐ Field Inventory Form ☐ Official_Order ☐ Electronic Transfer ☒ Other: Appalachian Development Highway System cost estimates

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☐ Official_Order
☑ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly ☐ Semi-annually ☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☑ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual

☐ HIS Field Instructions

☑ Other: Appalachian Regional Commission (web site http://www.arc.gov/)

Dissemination restrictions: None

Data access enabled through:

☑ Web Download

☐ Secured Web Download

☐ Outside User Request

☑ HIS System User

☑ Other: Report to Appalachian Regional Commission

Accuracy and precision issues:

☑ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☑ Data Content

☑ Other: Absenses of network records for road not yet constructed, etc.

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

New location records, the identification of direction (cardinal or non-cardinal) need to be added and filed.

Priority of these proposed improvements:

Medium

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Bike Routes

Inventory type code: BI

HIS View name: BIKE_ROUTES

Data purpose: All routes except the Trans-American Trail were designated by instate cycling experts working with the Kentucky Transportation Cabinet's Division of Multimodal Programs and the Kentucky Bicycle and Bikeways Commission.

HIS Feature Type: Length

Data description: Routes that are suitable for biking -- to nearest MP 1/1000'.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: All except for 59 city streets.

Source of information/contact: Multimodal/District Office
Paula Nye
564-7686

Activities supported by this data:

☐ ADDs/MPOs	☑ Operations	**Notes:**
☑ Design	☑ Planning	
☐ Environmental	☐ Traffic	
☑ Multimodal	☐ UKTC	

Data systems supported by this data:

☐ HPMS ☐ SYP
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other: Statewide Transportation Plan

Notes:

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☐ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Cycling experts at district offices assigned routes.

Primary data storage: HIS

Performance measures: No

Native format: ☐ Field Inventory Form ☑ Official_Order
☐ Electronic Transfer ☐ Other: Initial Creation. Official Order: route changes resurfacing, etc.

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☐ Official_Order
☑ Other: Updating data layer currently; will hopefully go to 2 year update cycle

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☑ **Non-state maintained roads**

☐ **Other categories:** Note on Non-State Mntd.: some county/city roads included

Quality control: ☐ HPMS Checks
☐ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

- [x] Age of Data
- [ ] Locational Accuracy
- [ ] Cross-sectional Position
- [ ] Data Content
- [ ] Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Wider shoulders. Sidewalks as an inventory item not currently mapped.

Other ideas for better analyses that would require new or different data:

Consistent policy on rumblestrips -- It doesn't need to be a data item -- being added to new projects: Currently 12" rumblestrip, anywhere from 6-14" from white line; need to get a standard distance from white line.

Other general comments:

(a) Inventory item for shared use/segregated bike/ped paths.(b) Parks have some paved trails, but no data on any trails. [Carey Tinscher]. (c) Recreational Trails: Department of Local Gov't.

Bridges 2nd View

Inventory type code: BO

HIS View name: BRIDGES_2ND_VIEW

Data purpose: Show overhead clearances on road way.

HIS Feature Type: Point

Data description: Structure over the road that has vertical/horizontal clearance concerns--bridge over the road/tunnels.

Geographic extent: ☐ Statewide **or (other):**

Level of completion:

Source of information/contact: Transportation Cabinet/Division ofOperations
Ken Watson
502-564-4556
kwatson@mail.kytc.state.ky.us

Activities supported by this data: ☐ ADDs/MPOs ☑ Operations **Notes:**
☑ Design ☑ Planning
☑ Environmental ☑ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☐ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☑ KBIS
Other:

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Laser measuring device to measure clearance (use to use rods).

Primary data storage: KBIS

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☑ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☐ Field_Observation **Notes:** Same as BR
☐ Official_Order
☐ Other: Special request from OS/OW

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☐ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☐ Other: Same

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☐ Secured Web Download
☐ Outside User Request
☐ HIS System User
☐ Other: Same

Accuracy and precision issues:

☐ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position

☐ Data Content

☑ Other: Bridge clearance below 13'6" are substandard

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Bridges

Inventory type code: BR

HIS View name: BRIDGES

Data purpose:

HIS Feature Type: Point (cardinal direction inventory MP @ beginning of bridge.

Data description: Marks the beginning of bridge when traveling in cardinal direction.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Operations
Ken Watson

Activities supported by this data:

☐ ADDs/MPOs	☑ Operations	**Notes:**
☑ Design	☐ Planning	
☑ Environmental	☑ Traffic	
☑ Multimodal	☐ UKTC	

Data systems supported by this data:

☐ HPMS	☑ SYP	**Notes:**
☐ CRASH	☐ PMS	
☑ OMS	☑ KBIS	

Other:

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP: funding/upcoming events

PMS:

KBIS: new database -- all bridge inventory data

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes: State level: secretary report bridge differences, etc.

Data collection methods: Field inventory. Hardcopy inspection report. Electronic collection on notebook, electronically submitted to server.

Primary data storage: Mainframe/KBIS

Performance measures: Are in beginning stages. Must pass Federal audits and Federal inspection. Also internal standards.

Native format: ☑ Field Inventory Form ☐ Official_Order
☑ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☐ Field_Observation ☑ Official_Order ☐ Other:

Notes: Scheduled periodic update every 2 years. Underwater inspections every 5 years. Substandard bridges (lower than road wt. class) annual. Can be more frequent in event of problems. Fracture/critical bridges prone to failure-every 2 years.

and/or ☑ **Scheduled Periodic Update:** ☐ Monthly ☐ Semi-annually ☐ Annually

Linear roadway systems ☑ **State System:**

☐ State Primary Roads
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

Notes:

☑ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks ☐ None ☑ Other: Edit checks on data for integrity/reasonable values at beginning and end.

Additional sources of documentation (Metadata):

☐ HPMS Field Manual

HIS Field Instructions

☐

☑ Other: Bridge Inspector's Training Manual. FHUA.

Metadata Notes:

Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges: FHWA-PD-96-001

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☐ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☑ Other: traffic count data, latest info/data.

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

PM-Pavement Management (Traffic lanes) BO-Bridges Over/Bridges
2nd View

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Access Control

Inventory type code: CA

HIS View name: ACCESS_CNTL

Data purpose: This data expresses the density of access points to the highway. High access levels generate congestion and decreased safety.

HIS Feature Type: Continuous

Data description: This item measures the degree of access control (1 full, 2 partial, 3 none).

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning (Division of Traffic responsible for assigning permits.)

Ed Whittaker

(502) 564-7183 ext. 4420

ewhittaker@mail.kytc.state.ky.us

Activities supported by this data:

☐ ADDs/MPOs	☐ Operations	**Notes:**
☐ Design	☑ Planning	
☐ Environmental	☑ Traffic	
☐ Multimodal	☐ UKTC	

Data systems supported by this data:

☑ HPMS ☐ SYP

☐ CRASH ☐ PMS

☐ OMS ☐ KBIS

Other:

Notes:

Impact within other data systems:

HPMS: This item is a measure of the degree of access control on roadway sections. It is used to calculate capacity and estimate type of design, in truck size and weight studies, and for national highway database purpose.

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Design Plans/ Field Inventory

Primary data storage: HIS

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☑ HPMS Checks
☐ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual

☑ HIS Field Instructions

☐ Other:

Dissemination restrictions: None

Data access enabled through:

☐ Web Download

☑ Secured Web Download

☑ Outside User Request

☑ HIS System User

☐ Other:

Accuracy and precision issues:

☑ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☑ Other: Interpretation of criteria used to collect the data

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

A more direct link to official status of the roadway.

Priority of these proposed improvements:

High

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Coal Haul

Inventory type code: CH

HIS View name: COAL_HAUL

Data purpose: Includes routes over which coal was reported transported by truck during the previous calendar year. This database is updated in July of each year. Therefore, the previous calendar year's data will become available in July of each year. Number of tons are reported separately for each direction of travel for state maintained roads.

HIS Feature Type: Length

Data description: Roads reported used by coal haulers and tons of coal hauled by direction.

Geographic extent: ☑ Statewide **or (other):**

Level of completion:

Source of information/contact: Transportation Cabinet/Division of Planning
Jay Hoskins
(502) 564-7183 ext. 4422
jhoskins@mail.kytc.state.ky.us

Activities supported by this data:

☐ ADDs/MPOs	☑ Operations	**Notes:**
☐ Design	☑ Planning	
☐ Environmental	☐ Traffic	
☑ Multimodal	☑ UKTC	

Data systems supported by this data:

☐ HPMS	☐ SYP	**Notes:**
☐ CRASH	☐ PMS	
☑ OMS	☐ KBIS	

Other:

Impact within other data systems:

HPMS:

CRASH:

OMS: Allocation of pavement funding

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☐ Federal ☑ State **Other level:** Local county

Reporting Level Notes:

Data collection methods: Reports submitted by Coal Haulers.

Primary data storage: HIS

Performance measures: No

Native format: ☐ Field Inventory Form ☐ Official_Order
☑ Electronic Transfer ☐ Other:

Update cycle: ☐ **Event:** ☐ Field_Observation **Notes:**
☐ Official_Order
☐ Other:

and/or ☑ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☑ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☑ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other: Maps, computerized edit programs

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual

☐ HIS Field Instructions

☑ Other: TC 59-100 - Coal Shipment Route and Tonnage Report: KRS 177.977; KRS 42.455; 603 KAR 5:115.

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position

☐ Data Content

☑ Other: Less than 100% compliance with reporting requirements

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

EW-Extended Weight System (new list to be loaded)

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

City Limits

Inventory type code: CL

HIS View name: CITY_LIMITS

Data purpose: Show change in local jurisdiction from county to city.

HIS Feature Type: Continuous

Data description: This data defines the boundaries of City Limits along any given corridor along with a code value for that city.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning and Kentucky Infrastructure Authority (KIA)

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ewhittaker@mail.kytc.state.ky.us

Activities supported by this data: ☑ ADDs/MPOs ☐ Operations **Notes:**
☐ Design ☑ Planning
☐ Environmental ☑ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☐ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other:

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☐ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: From municipal agencies, official documents, and meeting with local officials.

Primary data storage: Kentucky Infrastructure Authority (KIA).

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☒ Other: GIS coverage from KIA

Update cycle: ☐ **Event:** ☐ Field_Observation **Notes:**
☐ Official_Order
☑ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other: KIA

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☑ Other:

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☑ Age of Data
☑ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

SL-Speed Limit RW-Right-of-way (Breaks in these inventory items often occur at the same milepoint)

Proposed improvements:

Accurate and timely updates from local agencies to KIA.

Priority of these proposed improvements:

Medium

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Horizontal Curve

Inventory type code: CU

HIS View name: HORIZ_CURVE

Data purpose:

HIS Feature Type: Continuous

Data description: This data measures the direction (R/L) of curve and curve class (categories A through M). The horizontal percent, super-elevation, and pavement width in the curve are optional.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
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Activities supported by this data:
☐ ADDs/MPOs ☐ Operations **Notes:**
☐ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☑ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other:

Impact within other data systems:

HPMS: Used to compute operating costs for the FHWA Investment Model

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Field inventory and Highway plans

Primary data storage: Design Plans

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☒ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☑ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☑ **Other categories:** All Principal Arterial and Rural Minor Arterial

Quality control: ☑ HPMS Checks
☐ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual
☑ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☐ Secured Web Download
☐ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☑ Age of Data
☐ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Defense Highway Network

Inventory type code: DH

HIS View name: DEFENSE_HIGHWAY

Data purpose: Shows roads that are part of the Defense Highway Network that can be used by military equipment during a national crisis.

HIS Feature Type: Length

Data description: Classifies roads that can be used to move military and emergency equipment during national alerts and natural disasters.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Jay Hoskins
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Activities supported by this data:
☐ ADDs/MPOs ☐ Operations **Notes:**
☑ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☐ HPMS ☑ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☑ KBIS
Other:

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP: Reporting and Review of bridge clearance

PMS:

KBIS: Monitoring Military Loads and Bridge Clearances

Other:

Reporting levels: ☑ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Data collected in the field by the Division of Planning personnel.

Primary data storage: HIS

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☑ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☐ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other: Review by office personnel

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual

☐ HIS Field Instructions

☑ Other: Data base files

Dissemination restrictions: None

Data access enabled through:

☐ Web Download

☐ Secured Web Download

☑ Outside User Request

☑ HIS System User

☐ Other:

Accuracy and precision issues:

☐ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Rating Evaluation Section

Inventory type code: EV

HIS View name: RATING_EVAL_SECTION

Data purpose: Routes or route segments included as a sample in the Highway Performance Monitoring System (HPMS). Data maintained on these segments are reported annually to the FHWA to assess the performance of the nation's highway infrastructure. The sample types are S (standard sample), D (donut sample), and L (local sample).

HIS Feature Type: Continuous

Data description: Defines sections to be evaluated and stores the evaluation characteristics against those sections.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
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Activities supported by this data:

☐ ADDs/MPOs	☐ Operations	**Notes:**
☐ Design	☑ Planning	
☐ Environmental	☐ Traffic	
☐ Multimodal	☐ UKTC	

Data systems supported by this data:

☑ HPMS	☑ SYP	**Notes:**
☐ CRASH	☐ PMS	
☐ OMS	☐ KBIS	

Other:

Impact within other data systems:

HPMS: Defines sample and universe sections for HPMS submittal file. Contains evaluations type data for these sections.

CRASH:

OMS:

SYP: Uses capacity and Volume to Service Flow Ratio to determine project priorities.

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Field observation and calculated by HPMS software.

Primary data storage: HIS

Performance measures: Field observation and calculated by HPMS software.

Native format: ☑ Field Inventory Form ☑ Official_Order
☑ Electronic Transfer ☐ Other: Functional Class reviews

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☑ Other:

and/or ☑ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☑ Annually

Linear roadway systems ☑ **State System:**
☑ State Primary Roads **Notes:**
☑ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☑ **Other categories:** Arterial and Collectors

Quality control: ☑ HPMS Checks
☐ None
☑ Other: (miscellaneous crosschecks with other inventory items)

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual
☑ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☑ Other: FHWA dissemination of HPMS data to others.

Accuracy and precision issues:

☐ Age of Data
☐ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Revisions to meet new HPMS reporting requirements. Review of sample sectioning.

Priority of these proposed improvements:

High

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Extended Weight System

Inventory type code: EW

HIS View name: EXTENDED_WEIGHT

Data purpose: Designates roadway on which up to 120,000 coal loads may be legally carried without special OS?OW permit.

HIS Feature Type: Length

Data description: Segments of roadway designated on Extended Weight Coal Haul System.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Operation and Division of Planning

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jhoskins@mail.kytc.state.ky.us

Activities supported by this data: ☐ ADDs/MPOs ☑ Operations **Notes:**
☐ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☐ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☑ OMS ☑ KBIS
Other: Policy and Budget

Impact within other data systems:

HPMS:

CRASH:

OMS: Reporting, weight classification and verification.

SYP:

PMS:

KBIS: Used for reporting to the FHWA. Basis for bridge inventory.

Other: Allocation of funds back to local government level.

Reporting levels: ☐ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Coal Haul reports, cooperative agreements and Fiscal Court resolutions.

Primary data storage: HIS

Performance measures: No

Native format: ☐ Field Inventory Form ☐ Official_Order
☑ Electronic Transfer ☐ Other: Manual entry of cooperative agreements and Fiscal Court resolutions.

Update cycle: ☐ **Event:** ☐ Field_Observation **Notes:** Official Order
☐ Official_Order
☑ Other:

and/or ☑ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☑ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☑ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other: Other Edit checks based on Coal Haul and Office reviews

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☑ Other: KRS 177.9771

Dissemination restrictions: None

Data access enabled through:
☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:
☐ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☑ Other: Less than 100% compliance with reporting requirments

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

BR-Bridges (Substandard bridges would prevent designation as extended weight)

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

More timely updates by other data owners.

Other ideas for better analyses that would require new or different data:

Other general comments:

Facility Classification

Inventory type code: FC

HIS View name: FACILITY

Data purpose: Includes indicators for Public Road, Toll Facility, and Special Systems.

HIS Feature Type: Continuous

Data description: This data element identifies how a particular road is used. (Public Road Indicator, Special System, and Toll Indicator)

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Trasportation Cabinet/Division of Planning
Ed Whittaker
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Activities supported by this data:
☐ ADDs/MPOs ☐ Operations **Notes:**
☐ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☑ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other:

Impact within other data systems:

HPMS: Reporting

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Official documents and the Department of Defense (DOD).

Primary data storage: Strahnet Map

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☒ Other: Strahnet DOD map, toll and if public by field observations

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☑ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Forest Highway System

Inventory type code: FH

HIS View name: FOREST_SYSTEM

Data purpose:

HIS Feature Type: Length

Data description: Identity segments of roads in Forest Highway System

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
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Activities supported by this data:
☐ ADDs/MPOs ☐ Operations **Notes:**
☐ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☐ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other: Program Management

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other: Track funds from Federal Lands (FHWA) for FHS projects (non-maintenance)

Reporting levels: ☑ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Identified within the National Forests and agreed upon by the Forest Service and the Division of Planning.

Primary data storage: HIS

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☐ Other: From Federal Forest Highway and manually entered

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☐ Official_Order
☑ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☑ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other: Field reviews

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☑ Other: Federal Lands Division (FHWA)

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position
☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Federal System

Inventory type code: FS

HIS View name: FEDERAL_SYSTEM

Data purpose: Includes the functional classification for routes selected in the query criteria which are classified above a local road; however, state maintained routes will be included even if functionally classified as local. Routes not state maintained, but are functionally classified above local, will also be included.

HIS Feature Type: Continuous

Data description: This data element categorizes roads by their functional classification, by route mileage.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Jay Hoskins
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Activities supported by this data:
☑ ADDs/MPOs ☑ Operations **Notes:**
☑ Design ☑ Planning
☑ Environmental ☑ Traffic
☑ Multimodal ☑ UKTC

Data systems supported by this data:
☑ HPMS ☑ SYP **Notes:**
☑ CRASH ☐ PMS
☑ OMS ☑ KBIS
Other:

Impact within other data systems:

HPMS: HPMS is collected, sorted, and reported by functional system.

CRASH: Accident analysis is reported by functional class.

OMS: Important for setting snow removal priority routes.

SYP: Used to prioritize projects/funding allocation.

PMS:

KBIS: Prioritize projects/funding allocation.

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Established by roadway performance criteria (traffic counts). These numbers are compared to federal guidelines to establish what functional classification is

appropriate for a given road. In urban areas, FHWA approval is required.

Primary data storage: HIS

Performance measures: N/A

Native format: ☐ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☒ Other: Changed online in HIS as system changes occur.

Update cycle: ☑ **Event:** ☐ Field_Observation **Notes:**
☐ Official_Order
☑ Other: No set schedule. Changes occur as a result of an event, either a field observation or an official order.

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☑ **Non-state maintained roads**

☑ **Other categories:** Funtional class

Quality control: ☑ HPMS Checks
☐ None
☑ Other: Numerous and frequent checks on this data ensure data quality and integrity. Annual HPMS edit checks and visual editing of hardcopy records help ensure data quality.

Additional sources of documentation (Metadata):

☑ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Metadata Notes:

Highway Functional Classification--Concepts

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User

☐ Other:

Accuracy and precision issues:

☐ Age of Data
☑ Locational Accuracy
☐ Cross-sectional Position
☐ Data Content
☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

LC-Adjacent Land Classification (see HPMS Field Manual)
EV-Rating Evaluation Section (for rural/urban break)
TF-Traffic Flow

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

With the incoming 2000 census, new urban boundaries will improve accuracy of this data item.

Grade (Vertical Curve)

Inventory type code: GR

HIS View name: GRADE

Data purpose:

HIS Feature Type: Continuous

Data description: This data measures grade direction (+/-) and grade class (grade codes A through F). Percent of grade is optional.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
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ewhittaker@mail.kytc.state.ky.us

Activities supported by this data:
☐ ADDs/MPOs ☐ Operations **Notes:**
☐ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☑ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other:

Impact within other data systems:

HPMS: Used to compute operating costs for the FHWA Investment Model

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Field inventory and Highway Design Plans

Primary data storage: Design Plans

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order ☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation ☑ Official_Order ☐ Other: **Notes:**

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly ☐ Semi-annually ☐ Annually

Linear roadway systems ☑ **State System:**

☑ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☑ **Other categories:** All principal Arterial and Rural Minor Arterial

Quality control: ☑ HPMS Checks ☐ None ☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual
☑ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☐ Secured Web Download
☐ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☑ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Through Lanes

Inventory type code: LN

HIS View name: THRU_LANES

Data purpose: Includes the number of through lanes and lane widths in feet for state maintained roads.

HIS Feature Type: Continuous

Data description: Total number of lanes, and if roadway is divided, the number of lanes in each direction.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
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Activities supported by this data:

☑ ADDs/MPOs	☑ Operations	**Notes:**
☐ Design	☑ Planning	
☐ Environmental	☑ Traffic	
☐ Multimodal	☐ UKTC	

Data systems supported by this data:

☑ HPMS	☐ SYP	**Notes:**
☐ CRASH	☑ PMS	
☐ OMS	☐ KBIS	

Other:

Impact within other data systems:

HPMS: Lane miles

CRASH:

OMS:

SYP:

PMS: Lane miles

KBIS:

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Field inspection, Width measured (manually) tape measure, and highway plans.

Primary data storage: HIS

Performance measures: NHS congestion calculations

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☑ HPMS Checks
☐ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual

☑ HIS Field Instructions

☑ Other: HIS extracts on the web page.

Dissemination restrictions: None

Data access enabled through:

☑ Web Download

☑ Secured Web Download

☑ Outside User Request

☑ HIS System User

☐ Other:

Accuracy and precision issues:

☑ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☑ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

EV-Rating Evaluation Section (volume capacity, widening feasibility) TR-Truck Network (lanes must be 10' wide to be on National truck network) PK-Peak Parking

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

When convergent data system is upgraded, we will have the ability to maintain data on both sides of the divided highway. This will affect data storage, retrieval and reporting.

Other general comments:

Median

Inventory type code: MD

HIS View name: MEDIAN

Data purpose: Indicates whether a state maintained highway facility is divided or undivided. If divided, it also shows the type of median and the width in feet. 999 will be coded where estimates are one-thousand feet or greater.

HIS Feature Type: Continuous

Data description: Type of Roadway (by code), Type of Median (by code), and Median Width (shown in feet).

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Ed Whittaker
(502) 564-7183
ewhittaker@mail.kytc.state.ky.us

Activities supported by this data:
☐ ADDs/MPOs ☑ Operations **Notes:**
☐ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☑ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☑ OMS ☐ KBIS
Other:

Impact within other data systems:

HPMS: It is used to calculate capacity and estimate type of design, and for National Highway database

CRASH:

OMS: This data identifies the location of divided highways

SYP:

PMS: N/A

KBIS: N/A

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: This data was collected by field inspection. Measured widths do not include the left shoulder. Data gathered manually in the field with a tape measure or from

Highway Design Plans.

Primary data storage: HIS

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☑ HPMS Checks
☐ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual

☑ HIS Field Instructions

☑ Other: Planning's web site: www.kytc.ky.us/planning/index/extracts

Dissemination restrictions: None

Data access enabled through:

☑ Web Download

☑ Secured Web Download

☑ Outside User Request

☑ HIS System User

☐ Other:

Accuracy and precision issues:

☑ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

AL-Auxiliary Lanes (should cause a change in median width at the common mile point for both inventory types SH-Shoulders (there must be an associated left shoulder where a median is involved--there is a code for none) EV-Rating Evaluation Section (for capacity and widening feasibility) LN-Through Lanes (separated by direction [cardinal and non-cardinal] if a median exists)

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Median data is collected where median lengths are greater than 0.500 of a mile.

NAAQS Non Attainment Area

Inventory type code: NA

HIS View name: ATTAIN_AREA

Data purpose: Non-attainment of Air QualityAreas are subject to different project development procedures.

HIS Feature Type: Length

Data description: Roadway segments that exist in areas of Non-Attainment of Air Quality Standards. (NAAQS)

Geographic extent: ☑ Statewide **or (other):**

Level of completion:

Source of information/contact: Transportation Cabinet/Division of Planning and the Division of Environmental Analysis

Ed Whittaker

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Activities supported by this data:

☐ ADDs/MPOs	☐ Operations	**Notes:**
☐ Design	☑ Planning	
☑ Environmental	☐ Traffic	
☑ Multimodal	☐ UKTC	

Data systems supported by this data:

☑ HPMS ☐ SYP **Notes:**

☐ CRASH ☐ PMS

☐ OMS ☐ KBIS

Other:

Impact within other data systems:

HPMS: Reporting and sampling requirments

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Identified from maps and official doccuments

Primary data storage: Division of Enviromental Analysis

Performance measures: No, however construction projects may be effected in these areas.

Native format: ☐ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☒ Other: Entered from maps and official documents

Update cycle: ☑ **Event:** ☐ Field_Observation **Notes:**
☐ Official_Order
☑ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☑ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☐ Secured Web Download
☐ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data
☑ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

EV-Rating Evaluation Section (evaluation = section breaks occur at NAAQS boundaries)

Proposed improvements:

When whole Counties are exclusively considered and are no longer partially included.

Priority of these proposed improvements:

High

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Type of Operation

Inventory type code: OP

HIS View name: TYPE_OF_OP

Data purpose: Includes identification of how traffic directionally operates. Updated quarterly.

HIS Feature Type: Continuous

Data description: Type of Operation

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Ed Whittaker
(502) 564-7183 ext. 4420
ewhittaker@mail.kytc.state.ky.us

Activities supported by this data:

☐ ADDs/MPOs	☑ Operations	**Notes:**
☐ Design	☑ Planning	
☐ Environmental	☑ Traffic	
☐ Multimodal	☐ UKTC	

Data systems supported by this data:

☑ HPMS	☐ SYP	**Notes:**
☐ CRASH	☑ PMS	
☐ OMS	☐ KBIS	

Other:

Impact within other data systems:

HPMS: Uses codes to identify whether roadway segments has one way or two-way operation.

CRASH:

OMS:

SYP:

PMS: Used in ridability testing to identify needs and direction.

KBIS:

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Field inventory

Primary data storage: HIS

Performance measures: No

Native format: ☑ Field Inventory Form ☑ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☑ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☑ HPMS Checks
☐ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual
☑ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position
☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

TF-Traffic Flow (whether it is half the volume or the whole) TS-Traffic Count Station (whether station represents all or half the route) EV-Rating Evaluation Section (capacity)

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Priority Corridor

Inventory type code: PC

HIS View name: PRIORITY_CORRIDOR

Data purpose:

HIS Feature Type: Length

Data description: Routes or route segments that have been assigned a high priority for future funding -- tied to project identification by milepoint system in thousandths.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete as of last (and first) update

Source of information/contact: Transportation Cabinet/Division of Planning
Carl Dixon and Jim Wilson
(502)564-7183 x.4406; same w/x, 4408
cdixon@mail.kytc.state.ky.us; jwilson@kytc...

Activities supported by this data:

☐ ADDs/MPOs	☐ Operations	**Notes:**
☐ Design	☑ Planning	
☐ Environmental	☐ Traffic	
☐ Multimodal	☐ UKTC	

Data systems supported by this data:

☐ HPMS	☑ SYP	**Notes:**
☐ CRASH	☐ PMS	
☐ OMS	☐ KBIS	

Other: KYTC Staewide Transportation Plan (STP)

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP: Has priority in project selection

PMS:

KBIS:

Other: STP -- Has priority in project selection

Reporting levels: ☐ Federal ☐ State **Other level:** Internal Use Only

Reporting Level Notes:

Data collection methods: Routes or route segments are identified as high priority corridor based on systems (e.g. Interstates) and through information gathered in the planning process -- tied to route milepoints for selecting corridor terminals.

Primary data storage: Original information documented in Unscheduled Needs database, STP, and internal working documents

Performance measures: No

Native format: ☐ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☒ Other: Provided manually by route and milepoint

Update cycle: ☑ **Event:** ☐ Field_Observation **Notes:**
☐ Official_Order
☑ Other: Planning and programming process, as needed, probably on two or four year cycle.

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☑ State Primary Roads **Notes:**
☑ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other: Periodic Review and Monitoring

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual

☐ HIS Field Instructions

☑ Other: Individual "Advance Planning Reports" for each route.

Dissemination restrictions: Generally, for Internal planning and programming use only. May be available to Highway Districts and/or ADDs, based on permission granted by Deputy State Hwy Engr, Planning Director, BR. Mgr. Of SPAC, or Team Leader(s) of Corridor Planning and/or Statewide Intermodal Planning Team(s).

Data access enabled through:

☐ Web Download

☐ Secured Web Download

☐ Outside User Request

☐ HIS System User

☑ Other: Internal KYTC Users only -- by special request to SPAC

Accuracy and precision issues:

☑ Age of Data

☑ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes: Age of Data: needs to be reviewed for possible updates every 2-4 years. Locational Accuracy: termini for possible projects sometimes change.

Inventory items that are affected by changes in this data (w/HIS inventory codes):

None that interviewee knew of...but data should stay with route or route segment, not with road bed.

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Pavement Management

Inventory type code: PM

HIS View name: PAVE_MANAGEMENT

Data purpose:

HIS Feature Type: Continuous

Data description: Ride quality of the pavement from a user's perspective.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Operations
Michael Milligan; Jim Burnett
564-4556 (both)

Activities supported by this data:

☐ ADDs/MPOs	☑ Operations
☑ Design	☑ Planning
☐ Environmental	☐ Traffic
☐ Multimodal	☐ UKTC

Notes:
If pavement resurfaced, but tested before resurfaced, then estimate ride quality based on traffic.

Data systems supported by this data:

☑ HPMS	☑ SYP
☐ CRASH	☑ PMS
☑ OMS	☐ KBIS

Other:

Notes:

Impact within other data systems:

HPMS: Performance measures (ride quality, pavement type)

CRASH:

OMS: Performance measures criteria--ride quality

SYP: Pavement reliability--for state primary, Interstate/Parkways

PMS: System--ride quality data, determine coordinates for rehabilitation--from field data

KBIS: Rank for resurfacing priorities

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Pavement visual assessment for cracking, ruts, appearance (patching), IR+Accel=ride Quality. IR= measure pavement surface every 6" to 1/1000" IR sensor (measures reflection); Accel=inertial reference from accelerometer.

Primary data storage: PMS-Annual download

Performance measures: HPMS, PMS-rideability index, ride quality.

Native format: ☐ Field Inventory Form ☐ Official_Order
☑ Electronic Transfer ☐ Other:

Update cycle: ☐ **Event:** ☐ Field_Observation ☐ Official_Order ☐ Other:

Notes: HPMS-- non-state maintained roads: updates submitted in odd years for all non-stat maintained roads. May be tested in even years.

and/or ☑ **Scheduled Periodic Update:**

☐ Monthly
☐ Semi-annually
☑ Annually

Linear roadway systems ☑ **State System:**

☐ State Primary Roads
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

Notes:

☐ **Non-state maintained roads**

☑ **Other categories:** No non-state maintained roads except for HPMS-- needed small segments [city streets].

Quality control:

☐ HPMS Checks
☐ None
☑ Other: extensive consistency testing; intensive data quality supervision. Almost all data less than 3 years old.

Additional sources of documentation (Metadata):

Metadata Notes:

☑ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☐ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other: Web download: PV.

Accuracy and precision issues:

☐ Age of Data
☑ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes: Data only applicable as to status at the end of the last year.

Inventory items that are affected by changes in this data (w/HIS inventory codes):

PV-Pavement

Proposed improvements:

Couplet identification: cardinal/non-cardinal. Cardinal: Not identified as oneway in HIS. Non-cardinal: identified as one-way.

Priority of these proposed improvements:

High

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Provide most recent roadway resurfacing.

Other general comments:

Pavement

Inventory type code: PV

HIS View name: PAVEMENT

Data purpose: Includes the Pavement type for routes selected in the query criteria and will return state maintained routes only. Returns cardinal direction only for divided highways.

HIS Feature Type: Continuous

Data description: Represents the surface type and Structural Number or Surface thickness along a corridor.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Operation Management and Division of Planning

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jburchett@mail.kytc.state.ky.us;
ewhittaker@mail.kytc.state.ky.us

Activities supported by this data: ☐ ADDs/MPOs ☑ Operations **Notes:**
☐ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☑ HPMS ☐ SYP
☐ CRASH ☑ PMS
☐ OMS ☐ KBIS
Other:

Notes:

Impact within other data systems:

HPMS: Pavements are sorted into codes that represent surface types.

CRASH:

OMS:

SYP:

PMS: Performs model treatment types.

KBIS:

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: This data is collected in the field by inspection or on design plans.

Primary data storage: HIS

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☑ HPMS Checks
☐ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual

☑ HIS Field Instructions

☐ Other:

Dissemination restrictions: None

Data access enabled through:

☑ Web Download

☑ Secured Web Download

☑ Outside User Request

☑ HIS System User

☐ Other:

Accuracy and precision issues:

☑ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

The inventory type (PV) will probably be combined with PM data item in the future so that all pavement related information can be maintained in one location by Division of Operations.

Other general comments:

DMI Route Log

Inventory type code: RL

HIS View name: DMI

Data purpose: Includes milepoints defining type of intersection, interchange data, exit numbers and bridge numbers. Route Log is not so much an accurate, absolute measurement of length as a relational linear reference system.

HIS Feature Type: Continuous

Data description: Milepoints along a route from the origin of the route. Milepoints increase from West to East and from South to North. Interstates and parkways have continuous milepoints, within the state, while all other route mileage starts at county lines.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Operations and Division of Planning

John Dade

(502) 564-4556

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Activities supported by this data:

☑ ADDs/MPOs	☑ Operations	**Notes:**
☑ Design	☑ Planning	
☐ Environmental	☑ Traffic	
☑ Multimodal	☑ UKTC	

Data systems supported by this data:

☑ HPMS	☐ SYP	**Notes:**
☑ CRASH	☑ PMS	
☑ OMS	☑ KBIS	

Other:

Impact within other data systems:

HPMS: Used to reference data items and their attributes along roadways for the HPMS submittal.

CRASH: For the purpose of accident location for police reports and related information.

OMS: Cost of maintenance activities.

SYP:

PMS: Location of Ride Quality testing and of pavement reports.

KBIS: Bridge locations.

Other: Locations along road--applicable to all

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Primarily by field inventory using a Distance Measuring Instrument (DMI), vehicles drive the roads.

Primary data storage: HIS

Performance measures: No

Native format: ☑ Field Inventory Form ☑ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:** New rate/changes in new construction
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☑ HPMS Checks
☐ None
☑ Other: In house mapping processes

Additional sources of documentation (Metadata):

Metadata Notes:
Procedures for Establishing Milepoints

☑ HPMS Field Manual
☑ HIS Field Instructions
☑ Other: Division of Operations Guidelines and KYTC research report "Expansion of the Roadway Reference Log"

Dissemination restrictions: None

Data access enabled through:
☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

- [x] Age of Data
- [x] Locational Accuracy
- [ ] Cross-sectional Position
- [ ] Data Content
- [x] Other: Fragmented route data collection and use of varying techniques and equipment.

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

All data items are referenced to HIS through this inventory type, therefore, all would be affected by a change.

Proposed improvements:

Better communication when changes are made to the system. Greater understanding of when to make changes to this data. Data owners making timely updates to their files when notified to assure their data will be shown correctly when their files are up loaded to HIS.

Priority of these proposed improvements:

High

Other data that would be helpful in supporting these systems:

Increase locational accuracy by using GPS measurements.

Other ideas for better analyses that would require new or different data:

Other general comments:

Raised Pavement Marker System

Inventory type code: RP

HIS View name: RAISED_MARKERS

Data purpose: Shows sections of roadway approved for installation of raised (reflective) pavement markers.

HIS Feature Type: Length

Data description: Units: Thousandths of a mile. Reflective markers embedded in center of pavement are white dashed line, and also are sometimes yellow on the lefthand side.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transortation Cabinet/Division of Traffic
Larry Irish
564-3020
lirish@mail.kytc.state.ky.us

Activities supported by this data:

☐ ADDs/MPOs	☑ Operations
☑ Design	☐ Planning
☐ Environmental	☑ Traffic
☐ Multimodal	☐ UKTC

Notes:
Continuous LH- tum data not trustworthy. "eligibility zones". Continuous LH turn lane in the middle- Automatically Eligible.

Data systems supported by this data:

☐ HPMS	☐ SYP
☐ CRASH	☐ PMS
☑ OMS	☐ KBIS

Other: None

Notes:
(future) Maintenance rating...? Rate the road -- 'how sound of a job' -- take 500' test segment -- randomly assess

Impact within other data systems:

HPMS:

CRASH:

OMS: Snow removal

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☐ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: There is no data collection.

Primary data storage: HIS and Division of Traffic Guidance Manual, generated from an Excel Spreadsheet kept in Div. of Traffic.

Performance measures: No.

Native format: ☐ Field Inventory Form ☐ Official_Order
☑ Electronic Transfer ☐ Other: (from Excel Spreadsheet)

Update cycle: ☑ **Event:** ☐ Field_Observation **Notes:**
☐ Official_Order
☐ Other: Policy Change

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☑ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual

☐ HIS Field Instructions

☑ Other: Division of Traffic Guidance Manual

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☑ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Need a good inventory (HIS) of continuous left-turn lanes. Also, need to add more information including the date the markers were last installed, inventory of actual locations of markers, and better as-built info from contractors.

Priority of these proposed improvements:

Low

Other data that would be helpful in supporting these systems:

Resurfacing and Milepoints.

Other ideas for better analyses that would require new or different data:

Information on the date the markers were installed, would assist the Division of Traffic in preparing contracts for future installations. It would also help in evaluating the performance of the markers for performance, longevity, etc.

Other general comments:

Right of Way

Inventory type code: RW

HIS View name: RIGHT_OF_WAY

Data purpose:

HIS Feature Type: Continuous

Data description: This data measures the average right-of-way width of a corridor in feet.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Ed Whittaker
(502) 564-7183 ext. 4420
ewhittaker@mail.kytc.state.ky.us

Activities supported by this data:

☐ ADDs/MPOs	☑ Operations	**Notes:**
☐ Design	☑ Planning	
☐ Environmental	☐ Traffic	
☐ Multimodal	☐ UKTC	

Data systems supported by this data:

☑ HPMS	☑ SYP	**Notes:**
☐ CRASH	☐ PMS	
☑ OMS	☐ KBIS	

Other:

Impact within other data systems:

HPMS: Reporting

CRASH:

OMS: Mowing and other maintenance responsibilities

SYP: Widening feasibility

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Field inventory and Highway design

Primary data storage: HIS

Performance measures: No

Native format: ☑ Field Inventory Form ☑ Official_Order
☐ Electronic Transfer ☒ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☑ HPMS Checks
☐ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual
☑ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☑ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position
☑ Data Content

☐ Other:

Other Accuracy Notes: Data Content (from above): average specific value.

Inventory items that are affected by changes in this data (w/HIS inventory codes):

EV-Rating Evaluation Section (widening feasibility)

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

If data item identified specific areas of right-of-way ownership.

Other ideas for better analyses that would require new or different data:

Other general comments:

Scenic Byway System

Inventory type code: SB

HIS View name: SCENIC_SYSTEM

Data purpose: These routes are nominated by local support groups and designated by the Transportation Cabinet because they are deemed to have roadside or view sheds of aesthetic, historical, cultural, natural, archaeological, and/or recreational value worthy of preservation, restoration, protection, and/or enhancement.

HIS Feature Type: Length

Data description: Roads designated scenic with scenic highway route number, road name, scenic route sequence number, length in miles and route description.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Jay Hoskins
(502)564-7183 ext. 4422
jhoskins@mail.kytc.state.ky.us

Activities supported by this data: ☐ ADDs/MPOs ☑ Operations **Notes:**
☑ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☐ HPMS ☑ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other:

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP: Check to see if roads are designated scenic.

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Submitted by local support group for designation and reviewed/verified by Division of Planning. Designated by Secretary of Transportation on

recommendation by Transportation and Tourism Interagency Committee.

Primary data storage: HIS

Performance measures: No

Native format: ☐ Field Inventory Form ☑ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☐ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☑ **Non-state maintained roads**

☑ **Other categories:** Forest Service and National Parks

Quality control: ☐ HPMS Checks
☐ None
☑ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual

☐ HIS Field Instructions

☑ Other: Guidlelines and Applications

Dissemination restrictions: None

Data access enabled through:

☑ Web Download

☑ Secured Web Download

☑ Outside User Request

☑ HIS System User

☐ Other:

Accuracy and precision issues:

☐ Age of Data

☐ Locational Accuracy

☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Tourist and economic spending samples.

Other general comments:

Shoulders

Inventory type code: SH

HIS View name: SHOULDERS

Data purpose: Includes the type (surface) and width in feet for the right shoulder on state maintained highways.

HIS Feature Type: Continuous

Data description: This data element describes the shoulder type and width to the nearest whole foot.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Ed Whittaker
(502) 564-7183 Ext. 4420
ewhittaker@mail.kytc.state.ky.us

Activities supported by this data: ☐ ADDs/MPOs ☐ Operations **Notes:**
☐ Design ☐ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☑ HPMS ☐ SYP **Notes:**
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other:

Impact within other data systems:

HPMS: Capacity and safety

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Measured both by field measurements (taken by tape) and also by information taken from plans.

Primary data storage: HIS

Performance measures: This data element is used in the capacity calculation of a roadway.

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☑ **Non-state maintained roads**

☑ **Other categories:** HPMS Sample

Quality control: ☐ HPMS Checks
☑ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☑ Age of Data
☑ Locational Accuracy
☑ Cross-sectional Position
☑ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

BI-Bicycle routes
MD-Medians
EV-Rating Evaluation Sections (for capacity)
TR-Truck Routes

Proposed improvements:

Currently no established method for data changes to be entered in the HIS.

Priority of these proposed improvements:

Medium

Other data that would be helpful in supporting these systems:

Addition of information regarding rumblestrips and sidewalks would be helpful.

Other ideas for better analyses that would require new or different data:

Other general comments:

Speed Limit

Inventory type code: SL

HIS View name: SPEED_LIMIT

Data purpose:

HIS Feature Type: Continuous

Data description: Describes what speed limit is over a segment of the route. Should be a sign at beginning of each zone. Units: hundreths of a mile.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Traffic
Larry Irish
564-3020
lirish@mail.kytc.state.ky.us

Activities supported by this data:
☐ ADDs/MPOs ☐ Operations
☑ Design ☐ Planning
☐ Environmental ☑ Traffic
☐ Multimodal ☐ UKTC

Notes:

Data systems supported by this data:
☐ HPMS ☐ SYP
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other:

Notes:
Planning inputs speed limit data --Greg Witt.

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other:

Reporting levels: ☐ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Taking information off speed limit official orders and taking field measurements of speed limit signs. District should notify Larry in traffic, as can install 35 mph

limits on their own without official order (although uncommon).

Primary data storage: Partialy on Official Orders and partially input directly into HIS. Official Orders -- kept as long as in effect.

Performance measures: No

Native format: ☑ Field Inventory Form ☐ Official_Order
☐ Electronic Transfer ☐ Other: Field Inventory Form is a Survey

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☑ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☑ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☑ Age of Data
☑ Locational Accuracy

☐ Cross-sectional Position

☑ Data Content

☐ Other:

Other Accuracy Notes: Locational Accuracy: 35 mph --district engineers
Beginning/ending points --off by up to 50', while Official Order is to nearest 1/100 of a mile.

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Milepoints. Any time milepoints change, speed limits need to be updated.

Other ideas for better analyses that would require new or different data:

Should be information tracking history of speed limits from the data on Official Order number and date. This is important when accident happens for Lawyers/Police and when speed limit has changed/moved.

Other general comments:

Need to track changes in beginning/ending points of speed limits over time

State System

Inventory type code: SS

HIS View name: STATE_SYSTEM

Data purpose: Includes the state system classification for state-maintained roads.

HIS Feature Type: Continuous

Data description: Categorizes State-maintained roads for levels of maintenance and funding.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Jay Hoskins
(502) 564-7183 ext. 4422
Jhoskins@mail.kytc.state.ky.us

Activities supported by this data: ☑ ADDs/MPOs ☑ Operations **Notes:**
☑ Design ☑ Planning
☑ Environmental ☑ Traffic
☑ Multimodal ☑ UKTC

Data systems supported by this data:
☐ HPMS ☑ SYP **Notes:**
☐ CRASH ☑ PMS
☑ OMS ☑ KBIS
Other:

Impact within other data systems:

HPMS:

CRASH:

OMS: Funding and reporting

SYP: Project needs and priorities

PMS: Inventory cycle and reporting

KBIS: Bridge location

Other:

Reporting levels: ☐ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Field and office review to integrate road as to level of importance in the system.

Primary data storage: HIS

Performance measures: Yes, performance measures for determining how well Transportation Cabinet is maintaing a relatively consistent system in total miles on the system.

Native format: ☐ Field Inventory Form ☑ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other: GIS mapping and office personnel review

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual

☐ HIS Field Instructions

☑ Other: Division of Planning Manual Systems Evaluating Chamber 59-04

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☑ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position

☐ Data Content

☑ Other: No regular cycle for complete review

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

FS-Federal System (Any changes in this item most likely should result in an FS change.)

Proposed improvements:

District should send in all changes and supporting data in a more timely fashion.

Priority of these proposed improvements:

High

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Conduct a system-wide review more often for greater continuity.

Other general comments:

Traffic Flow

Inventory type code: TF

HIS View name: TRAFFIC

Data purpose: Includes traffic volume counts (or estimates) for current year plus the last actual count and year for state-maintained and/or functionally classified roads. See CTS for most recent and more complete count information.

HIS Feature Type: Continuous

Data description: Current Year Annual Average Daily Traffic (AADT) Count, Source of Current Count, Prior Year ADT, Source of Prior Count for HPMS, Last Actual ADT Count, Year of Last Actual ADT Count, Description of end Point, Traffic Count Station ID, Station Type, Vehicle Classification Station, Year of VC Count, and percent single unit trucks and percent of combination trucks.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Paul Utter; Ed Whittaker
(502)564-7183 (x.4420 for Whittaker)
putter@mail.kytc.state.ky.us; ewhittaker@mail.kytc.state.ky.us

Activities supported by this data: ☑ ADDs/MPOs ☑ Operations **Notes:**
☑ Design ☑ Planning
☐ Environmental ☑ Traffic
☐ Multimodal ☑ UKTC

Data systems supported by this data:
☑ HPMS ☑ SYP **Notes:**
☐ CRASH ☑ PMS
☐ OMS ☑ KBIS
Other: Public and private agencies

Impact within other data systems:

HPMS: Sample selection, Vehicle Miles Traveled (VMT) and other reporting requirements

CRASH:

OMS:

SYP: Uses Average Daily Travel (ADT) for project selection and priorities

PMS: Uses ADT for pavement management

KBIS: Uses ADT for Federal reporting and maintenance

Other: Public and private agencies

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Traffic data collected by permanent and portable traffic recorders and by manual counts.

Primary data storage: Traffic Volume System (TVS) program

Performance measures: Yes, Volume to Service Flow (V/SF) is calculated using the Highway Performance Monitoring System (HPMS) software provided by the Federal Highway Administration (FHWA). Approximately 64% of the National Highway System (NHS) miles are designated as HPMS samples. This mileage is used in this analysis. The percentages shown as congested on the graph are comprised of urban mileage with V/SF ratios greater than 1.0 and rural mileage with ratios greater than 0.6. The percentages are obtained by dividing the NHS mileage, designated as samples, and having a high V/SF ratio, by the total number of miles designated as samples on the NHS. The calculations are based on such information as roadway geometrics and traffic volume, obtained from the Highway Information System (HIS) database.

Native format: ☐ Field Inventory Form ☐ Official_Order
☑ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☑ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☑ **Other categories:** Arterials and collectors

Quality control: ☑ HPMS Checks
☐ None
☑ Other: Field validation, Edit checks using historical data (automated and manual).

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual

☐ HIS Field Instructions

☑ Other: Traffic Monitoring Guide (TMG) and Traffic Monitoring System (TMS) guidelines

Dissemination restrictions: None

Data access enabled through:

- [x] Web Download
- [x] Secured Web Download
- [x] Outside User Request
- [x] HIS System User
- [x] Other: Counts Program (CTS)

Accuracy and precision issues:

- [ ] Age of Data
- [ ] Locational Accuracy
- [ ] Cross-sectional Position
- [ ] Data Content
- [ ] Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

TS-Traffic Count Station (ID may change) EV-Rating Evaluation Section (Volume to Service Flow [V/SF])

Proposed improvements:

Improve coverage of state system by review of station breaks to be more representative of volume changes.

Priority of these proposed improvements:

High

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

National Truck Network

Inventory type code: TR

HIS View name: TRUCKS

Data purpose: Includes routes on the state maintained road system which have been specifically designated for use by motor vehicles (trucks) with increased dimensions (e.g., 102" wide, 13'-6" high, semi-trailers up to 53' long, trailers 28' long- not to exceed two [2] trailers per truck).

HIS Feature Type: Length

Data description: State-maintained roads over which increased dimension trucks (102 inches wide) may operate.

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Jay Hoskins
(502) 564-7183 ext. 4422
jhoskins@mail.kytc.state.ky.us

Activities supported by this data:

☐ ADDs/MPOs	☐ Operations	**Notes:**
☑ Design	☑ Planning	
☐ Environmental	☐ Traffic	
☑ Multimodal	☐ UKTC	

Data systems supported by this data:

☑ HPMS	☑ SYP	**Notes:**
☐ CRASH	☐ PMS	
☐ OMS	☐ KBIS	

Other: Motor Vehicle Enforcement

Impact within other data systems:

HPMS: Commercial Vehicle Access Reporting

CRASH:

OMS:

SYP: Generate projects that will make access by trucks 102 inches wide possible

PMS:

KBIS:

Other: Monitor the use designated roads

Reporting levels: ☑ Federal ☑ State **Other level:**

Reporting Level Notes:

Data collection methods: Field review by Transportation Cabinet personnel.

Primary data storage: HIS

Performance measures: No

Native format: ☐ Field Inventory Form ☑ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☐ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☐ None
☑ Other: Staff review

Additional sources of documentation (Metadata): Metadata Notes:

☑ HPMS Field Manual

☐ HIS Field Instructions

☑ Other: KRS 189.222 regulation and (603.KAR5;070) regarding the size of trucks and where they can go.

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☑ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

A photo log.

Other ideas for better analyses that would require new or different data:

Improving spatial data techniques for better routing and spatial analysis.

Other general comments:

Traffic Count Station

Inventory type code: TS

HIS View name: TC_STATION

Data purpose:

HIS Feature Type: Point

Data description: Traffic Count Station locations

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Planning
Paul Utter or Ed Whittaker
(502)564-7183 (x.4420 for Whittaker)
putter@mail.kytc.state.ky.us; whittakerr@mail.kytc.state.ky.us

Activities supported by this data: ☐ ADDs/MPOs ☐ Operations **Notes:**
☐ Design ☑ Planning
☐ Environmental ☐ Traffic
☐ Multimodal ☐ UKTC

Data systems supported by this data:
☐ HPMS ☐ SYP
☐ CRASH ☐ PMS
☐ OMS ☐ KBIS
Other: Traffic count maps

Notes:

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP:

PMS:

KBIS:

Other: Data for placing station information on traffic count maps.

Reporting levels: ☐ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Obtained latitude/longitude coordinates from GPS receiver.

Primary data storage: HIS

Performance measures: No

Native format: ☑ Field Inventory Form ☑ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☑ Official_Order
☐ Other:

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☑ **Other categories:** Arterial and Collectors

Quality control: ☐ HPMS Checks
☐ None
☑ Other: Map review

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☑ Other: to be developed

Dissemination restrictions: None

Data access enabled through:

☐ Web Download
☐ Secured Web Download
☐ Outside User Request
☑ HIS System User
☑ Other: On traffic count maps

Accuracy and precision issues:

☐ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position
☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

TF-Traffic Flow (the count location)

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Photo image of site location

Other ideas for better analyses that would require new or different data:

Other general comments:

Truck Weight Class

Inventory type code: TW

HIS View name: TR_WEIGHT

Data purpose: This route system establishes the maximum allowable gross weight limit on each segment of state maintained highway. There are three (3) weight classifications: (1) "AAA" system for eighty thousand (80,000) pounds gross weight, (2) "AA" system for sixty-two thousand (62,000) pounds gross weight, and (3) "A" system for forty-four thousand (44,000) pounds gross weight.

HIS Feature Type: Continuous

Data description: A: default; AA: 62K; AAA: 80K

Geographic extent: ☑ Statewide **or (other):**

Level of completion: Complete

Source of information/contact: Transportation Cabinet/Division of Operations
John Dade
502-564-4556
jdade@mail.kytc.state.ky.us

Activities supported by this data:

☐ ADDs/MPOs	☑ Operations	**Notes:** also: vehicle enforcement and truckers
☐ Design	☐ Planning	
☐ Environmental	☐ Traffic	
☐ Multimodal	☐ UKTC	

Data systems supported by this data:

☐ HPMS	☐ SYP	**Notes:**
☐ CRASH	☐ PMS	
☐ OMS	☑ KBIS	

Other:

Impact within other data systems:

HPMS:

CRASH:

OMS:

SYP:

PMS:

KBIS: Roads- bridges set to same weight limits

Other:

Reporting levels: ☐ Federal ☐ State **Other level:**

Reporting Level Notes:

Data collection methods: Request basis

Primary data storage: HIS

Performance measures: Performance highway ranking

Native format: ☐ Field Inventory Form ☑ Official_Order
☐ Electronic Transfer ☐ Other:

Update cycle: ☑ **Event:** ☑ Field_Observation **Notes:**
☐ Official_Order
☐ Other: Official Order= Request

and/or ☐ **Scheduled Periodic Update:** ☐ Monthly
☐ Semi-annually
☐ Annually

Linear roadway systems ☑ **State System:**
☐ State Primary Roads **Notes:**
☐ State Secondary Roads
☐ Rural Secondary Roads
☐ Supplementary Roads

☐ **Non-state maintained roads**

☐ **Other categories:**

Quality control: ☐ HPMS Checks
☑ None
☐ Other:

Additional sources of documentation (Metadata): Metadata Notes:

☐ HPMS Field Manual
☐ HIS Field Instructions
☐ Other:

Dissemination restrictions: None

Data access enabled through:

☑ Web Download
☐ Secured Web Download
☑ Outside User Request
☑ HIS System User
☐ Other:

Accuracy and precision issues:

☐ Age of Data
☐ Locational Accuracy
☐ Cross-sectional Position

☐ Data Content

☐ Other:

Other Accuracy Notes:

Inventory items that are affected by changes in this data (w/HIS inventory codes):

BR-Bridges

Proposed improvements:

Priority of these proposed improvements:

Other data that would be helpful in supporting these systems:

Other ideas for better analyses that would require new or different data:

Other general comments:

Disclaimer: No warranty.